nified, are appended to the text. The author remarks that the first indication of since restored species, *e.g.*, of the *Diprotodon*, as a large extinct Marsupial, was a portion of a tooth, and corresponding accessions of fossil remains may be expected to lead to a like reconstruction of the present animal. He is indebted to E. P. Ramsay, Esq., F.L.S., for casts of the first found specimens of the teeth in question to which the transmitter had appended the name *Sceparnodon;* subsequently the author received, through the kindness of C. H. Hartman, Esq., of Toonromba, Queensland, a large portion of the tooth itself.

III. "Evidence of a Large Extinct Monotreme (*Echidna Ramsayi*, Ow.) from the Wellington Breccia Cave, New South Wales." By Professor OWEN, C.B., F.R.S. Received November 3, 1883.

(Abstract.)

In this communication the author gives a description of a fossil humerus from the breccia cave of Wellington Valley, which repeats the characters of that bone in the existing monotrematous genus *Echidna* more closely than those of the same bone in any other known kind of mammal. The fossil, however, greatly exceeds in size that of the existing Australian species, *Echidna hystrix*, Cuv. The existence of, at least, two other kinds lately discovered living in New Guinea has been made known in memoirs by Professor Gervais and Mr. E. P. Ramsay, F.L.S.; these occupy, in respect of size, the interval between them and the Australian *Ech. hystrix*, but the subject of the present paper makes known the largest Monotreme hitherto discovered. Figures of the fossil in question, and of the corresponding bone of the smaller existing Australian kind, accompany the text. The fossil formed part of the series of remains obtained from the cave above cited, and was with them submitted to the author, who proposes to indicate the present acquisition by the name *Echidna Ramsayi*.

IV. "Correction to a paper 'On the Determination of Verdet's Constant,' published in the 'Phil. Trans.,' 1877." By J. E. H. GORDON, M.S.T.E. Communicated by Professor STOKES, Sec. R.S. Received October 5, 1883.

(Abstract.)

In revising my "Treatise on Electricity" for the second edition, in July, 1883, I noticed a discrepancy between the value of Verdet's constant obtained by myself and that deduced from M. H.